

What is claimed is:

1. An inkjet recording ink comprising:

an aqueous medium comprising at least one water-miscible organic solvent; and

5 at least one dye dissolved and/or dispersed in the aqueous medium, wherein said at least one dye has a maximum absorption spectrum  $\lambda_{\max}$  at a wavelength range of from 390 nm to 470 nm and a  $I(\lambda_{\max} + 70 \text{ nm})/I(\lambda_{\max})$  ratio of not greater than 0.4, in which  $I(\lambda_{\max})$  is the absorbance at  $\lambda_{\max}$  and  $I(\lambda_{\max} + 70 \text{ nm})$   
10 is the absorbance at  $\lambda_{\max} + 70 \text{ nm}$ ,

wherein the inkjet recording ink exhibits an accelerated fading rate constant of not greater than  $5.0 \times 10^{-2} \text{ [hour}^{-1}\text{]}$ , in which the accelerated fading rate constant is determined by printing the ink on a reflection medium to prepare a printed  
15 matter, measuring a reflection density through a status A filter to define an initial value of reflection density ( $D_B$ ) in the yellow region by one point between 0.90 and 1.10, and acceleratedly fading the printed matter by using an ozone fading tester capable of always generating 5 ppm of ozone, so as to  
20 define the fading rate constant from the time required until the reflection density reaches 80% of the initial value; and

said at least one water-miscible organic solvent satisfies one of the following requirements 1) and 2):

1) all of said at least one water-miscible organic solvent  
25 has a solubility of less than 10 (g/100g) in the dye at 25°C;

2) at least one of said at least one water-miscible organic solvent has a solubility of not smaller than 10 (g/100 g) in the dye at 25°C, with the proviso that the sum of the weight of the water-miscible organic solvent having a solubility of not smaller than 10 (g/100 g) in the dye at 25°C is not greater than 10% of the weight of the ink.

2. The inkjet recording ink as defined in Claim 1, wherein the dye exhibits a  $\lambda_{\text{max}}$  at a wavelength range of from 390 nm to 470 nm and a  $I(\lambda_{\text{max}} + 70 \text{ nm})/I(\lambda_{\text{max}})$  ratio of not greater than 0.2 in which  $I(\lambda_{\text{max}})$  is the absorbance at  $\lambda_{\text{max}}$  and  $I(\lambda_{\text{max}} + 70 \text{ nm})$  is the absorbance at  $\lambda_{\text{max}} + 70 \text{ nm}$ .

3. The inkjet recording ink as defined in Claim 1, wherein the dye has an oxidation potential of more positive than 1.0 V (vs SCE).

4. The inkjet recording ink as defined in Claim 2, wherein the dye has an oxidation potential of more positive than 1.0 V (vs SCE).

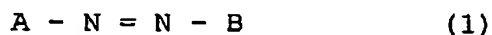
5. The inkjet recording ink as defined in Claim 1, wherein the total amount of said at least one water-miscible organic solvent is 1 to 60 weight% based on the ink.

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6. An inkjet recording ink comprising:  
an aqueous medium comprising at least one water-miscible  
organic solvent; and

at least one dye dissolved and/or dispersed in the aqueous  
5 medium,

wherein the dye is a compound represented by formula (1)  
having a  $\lambda_{\max}$  at a wavelength range of from 390 nm to 470 nm,



in which A and B each independently represents a  
10 heterocyclic group which may be substituted; and

said at least one water-miscible organic solvent  
satisfies one of the following requirements 1) and 2):

1) all of said at least one water-miscible organic solvent  
has a solubility of less than 10 (g/100g) in the dye at 25°C;

15 2) at least one of said at least one water-miscible organic  
solvent has a solubility of not smaller than 10 (g/100 g) in  
the dye at 25°C, with the proviso that the sum of the weight  
of the water-miscible organic solvent having a solubility of  
not smaller than 10 (g/100 g) in the dye at 25°C is not greater  
20 than 10% of the weight of the ink.

7. The inkjet recording ink as defined in Claim 1, wherein  
the number of the water-miscible organic solvents having a  
solubility of not smaller than 10 (g/100 g) in the dye at 25°C  
25 is at least two in the case 2).

8. The inkjet recording ink as defined in Claim 6,  
comprising at least two water-miscible organic solvents having  
a solubility of not smaller than 10 (g/100 g) in the dye at  
5 25°C in the case 2).

9. The inkjet recording ink as defined in Claim 1, wherein  
the amount of said at least one dye is 0.2 to 20 weight% based  
on the ink.

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10. The inkjet recording ink as defined in Claim 6,  
wherein the amount of said at least one dye is 0.2 to 20 weight%  
based on the ink.

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